

Table 1. Existing and Pending Land and Easement Acquisitions Available for Habitat Compensation Federally Listed Species Affected at UC Merced the UC Merced Campus

Acquiring Agency	Property	Acreage	Cost (\$)	Transaction Status
UC Acquisitions	Campus Natural Reserve	750		Pending
	Virginia Smith Trust	5,030		Pending
Total UC Lands		5,780		
WCB/TNC Acquisitions				
from \$30MM	Chance	7,620	3,847,500	Pending - Due 6/02
	Robinson	3,595	2,540,000	Completed
	Cunningham	1,764	2,601,413	Completed
	Nelson	3,931	1,829,700	Pending - Due 6/02
	Carlson Trust	304	387,983	Completed
	Cyril Smith Trust	3,074	3,000,000	Pending - Due 8/01 (est)
Total WCB/TNC Lands Acquisitions		20,288	14,490,563	
Total Land Acquisition				
UC pending + WCB/TNC to date		26,068		

Table 2. Known Occurrence and Estimated Relative Abundance of Special-Status Species on Surveyed UC Merced Mitigation Sites

Species	Property Surveyed					
	CNR	VST	CST	Chance	Cunningham	Nelson
Succulent owl's-clover (<i>Castilleja campestris</i> ssp. <i>succulenta</i>)	H	H	H	H	L	H
Colusa grass (<i>Neostapfia colusana</i>)	L	H				
San Joaquin Valley Orcutt grass (<i>Orcuttia inaequalis</i>)	M	L				
Hairy Orcutt grass (<i>Orcuttia pilosa</i>)						
Greene's tuctoria (<i>Tuctoria greenei</i>)						
Hoover's spurge (<i>Chamaesyce hooveri</i>)						
Bogg's Lake hedge-hyssop (<i>Gratiola heterosepala</i>)						
Hartweg's golden sunburst (<i>Pseudobahia bahiifolia</i>)						
Vernal pool fairy shrimp (<i>Branchinecta lynchi</i>)	H	H	H	H	H	H
Vernal pool tadpole shrimp (<i>Lepidurus packardii</i>)		L				
Conservancy fairy shrimp (<i>Branchinecta conservatio</i>)	H					
Valley elderberry longhorn beetle (<i>Desmocerus californicus dimorphus</i>)				L	L	L
Bald eagle (<i>Haliaeetus leucocephalus</i>)	L	L	L			
Mountain plover (<i>Charadrius montanus</i>)	L					
San Joaquin kit fox (<i>Vulpes macrotis mutica</i>)						
Midvalley fairy shrimp (<i>Branchinecta mesoatlantica</i>)	M	M	M		H	H
Western spadefoot (<i>Scaphiopus hammondi</i>)					M	M
California tiger salamander (<i>Ambystoma californiense</i>)	M	M	M	L	M	H

Notes: Robinson and Carlson Trust properties were not surveyed. Relative abundance characterizations for CNR, VST, and CST properties are interpreted from information in the Project BA. Abundance characterizations on the remaining properties are as reported by Vollmar. Absence of an indicator symbol denotes no record of presence.

Key:

H = High Abundance
M = Medium Abundance
L = Low Abundance

Source: EIP Associates 2002, Vollmar 2002

**Table 8 - Losses and Estimate of Extant Vernal Pool Grasslands in Five Counties
in the San Joaquin Valley, California**

Updated September 23, 1999

County	Vernal Pool Grasslands¹ (acres)(year)	Vernal Pool Grasslands – 1997¹ (acres)	Known Habitat Lost Since 1997 (acres/# of sites)	Current Estimate of Vernal Pool Grasslands (acres)	Percent Loss Since [Year]
Fresno	27,955 (1994)	27,459	200 ² /1	27,459	2 percent since 1994
Kern	7,399 (1990)	6,848	1,325 ² /5	6,648	10 percent since 1990
Madera	91,178 (1987)	87,047	5,040/5	82,007	10 percent since 1987
Merced	282,741 (1987)	252,424	3,180 ³ /3	249,244	12 percent since 1987
Tulare	36,907 (1993)	34,900	75 ² /2	34,830	6 percent since 1993
Totals	at least 446,180 acres in 1987	408,678	9,820 ²	398,858	2.5 percent since 1997; at least 10.6 percent since 1987

¹ Holland, R.F. 1998. No Net Loss? Changes in Great Valley Vernal Pool Distribution from 1989 to 1997. California Department of Fish and Game. Sacramento, California.

² All sites comprised unplowed rangeland supporting endangered species habitat; however, some of these sites were not mapped by Holland (1998) as “vernal pool grasslands.” See attached table for site-specific designations.

³ One site (160 acres) involved discing and ditching, but not deep-ripping, of vernal pool habitat; these acres may eventually be recovered to previous condition.

**Table 9 - Unpermitted Conversions of Wetlands/Endangered Species Habitat in Five Counties
in the San Joaquin Valley, California**

Updated September 23, 1999

Fresno County:

Whites Bridge Lane Site – 200 acres – T14S R16E Section 15 (Jamesan Quad)*

Kern County:

Adams Site – 160 acres – T25S R24E NE 1/4 of Section 4 (Allensworth Quad)*

Burgess Site – 5 acres – T28S R25E SW 1/4 of Section 34 (Rio Bravo Quad)*

Rio Bravo Site – 320 acres – T29S R25E N ½ of Section 19 (Rio Bravo Quad)*

Valov Site – 640 acres – T25S R23E Section 36 (NW Wasco Quad)*

Unnamed Kern Site #5 – 200 acres – T25S R24E E 1/3 of Section 2 (Delano West Quad)

Madera County:

Chowchilla Water District Site – 580 acres – T9S R16E S ½ of Section 14, SW 1/4 of Section 13, NW 1/8 of Section 23 (LeGrand)

Costa View Dairy Site – 1,520 acres – T11S R15E Sections 12 and 13, T11S R16E Sections 7 and 18 (Firebaugh NE Quad)

Richard Iest Site – 1,280 acres – T12S R15E Sections 17 and 18 (Firebaugh NE/Poso Farm Quads)

Roland Smith Farms Site – 1,500 acres – T10S R19E Sections 30, 31, and 32 (Daulton Quad)

Unnamed Madera Site #4 – 160 acres – T12S R14E NE 1/4 of Section 24

Merced County:

Anguiano Site – 160 acres – T8S R13E SE 1/4 of Section 24 (El Nido Quad)

Ingomar Packing Site – 20 acres – T9S R9E SE 1/4 of Section 15 (Ingomar Quad)

Unnamed Merced Site #3 – 3,000 acres – T9S R16E Sections 2, 3, 4, N ½ of Sections 9, 10, 11, and NW 1/4 of Section 12 (Le Grand)

Tulare County:

Chroman Site – 70 acres – T24S R24E E ½ of SE 1/4 of Section 27 (Delano West Quad)

Cochran Site – 5 acres – T23S R24E Section 25 (Pixley Quad)*

* These sites provided habitat for endangered species, but were not mapped by Holland (1998) as “vernal pool grasslands.”

Table 10 - Reporting Requirements for UC Merced Phase 1 Campus

<u>Project Phase</u>	<u>Requirement</u>	<u>Reporting Format</u>	<u>Timing of Reporting</u>	<u>Approval Agencies</u>
Campus Design	Provide grading plans and designs for Campus perimeter to ensure that adjacent vernal pools are protected from run off, human disturbance, and lighting	Grading plans and construction plans and specifications	Prior to ground disturbance	Service, Corps
Construction	Prepare construction mitigation plan to address conservation measures	Construction mitigation plan	Prior to ground disturbance	Service, Corps
	Conduct preconstruction surveys and mitigation	Preconstruction monitoring report	Prior to ground disturbance	Service, DFG
	Conduct construction mitigation	Construction monitoring report	Monthly while ground disturbance is occurring	Service, DFG
Compensation/ Enhancement	Manage remainder of golf course to encourage natural habitat	Golf course monitoring report	Within 60 days following initiation of Phase 1 construction	Service
	Prepare plan to mitigate for pre-existing loss of wetlands on golf course site	Phase 1 wetland mitigation plan	Within 60 days following initiation of Phase 1 construction	Service, Corps
	Conduct mitigation for pre-existing loss of wetlands on golf course site	Mitigation monitoring report	Following monitoring in years 1, 2, 3, 5, 7, and 10 after construction	Service, Corps
	Prepare plan describing protective management actions at CNR and VST lands	CNR and VST management plan	Within 60 days of initiation of Phase 1 construction	Service, DFG
	Implement protective management at CNR and VST lands	Monitoring report	Annually	Service, DFG
	Identify access enhancement actions across MID canals for kit fox	Report on proposed access improvements	Prior to ground disturbance	Service, DFG
	Implement access enhancements for kit fox across MID canals	Report on access enhancement accomplishments	Within 1 year of ground disturbance	Service, DFG